

Name: _____

p1103: Factoring with box when $a = \text{prime}$ (v15)

Example

Use the box to factor $2x^2 - 9x - 18$.

Guess and check, based on factor pairs of -18 , until you find the pair that results in a linear coefficient of -9 after combining like terms.

*	x	
2x	$2x^2$	$-12x$
3	$3x$	-18

$2x^2 - 12x + 3x - 18$
 Combine like terms.
 $2x^2 - 9x - 18$

ANSWER: $(2x + 3)(x - 6)$

Question 1

Use the box to factor $3x^2 + 26x + 16$.

*	x	
3x	$3x^2$	
		16

ANSWER:

Question 2

Use the box to factor $7x^2 + 33x - 10$.

*	x	
7x	$7x^2$	
		-10

ANSWER:

Question 3

Use the box to factor $5x^2 - 29x + 20$.

*		

ANSWER: